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|-------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|-----------------------------|------------------|
| APPLICATION NO.                                                                                                                           | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.         | CONFIRMATION NO. |
| 09/608,232                                                                                                                                | 06/30/2000  | Lewis D. Dodrill     | 1004-075                    | 9980             |
| 47654 7590 04/09/2007<br>DAVID E. HUANG, ESQ.<br>BAINWOOD HUANG & ASSOCIATES LLC<br>2 CONNECTOR ROAD<br>SUITE 2A<br>WESTBOROUGH, MA 01581 |             |                      | EXAMINER<br>NGUYEN, THANH T |                  |
|                                                                                                                                           |             |                      | ART UNIT<br>2144            | PAPER NUMBER     |
| SHORTENED STATUTORY PERIOD OF RESPONSE                                                                                                    |             | MAIL DATE            | DELIVERY MODE               |                  |
| 3 MONTHS                                                                                                                                  |             | 04/09/2007           | PAPER                       |                  |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

09/608,232

Applicant(s)

DODRILL ET AL.

Examiner

Tammy T. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE (3) MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 10 January 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-9, 11-17 and 36-41 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-17 and 36-41 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 June 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_



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***Detailed Office Action***

1. This action is in response to the amendment filed on January 10, 2007.
2. Claims 1-9, 11-17, and 36-41 are pending.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-6, and 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murtaza Ali., (hereinafter Ali) U.S. Patent No. 6,144,937 in view of Premkumar V. Uppaluru., (hereinafter Uppaluru) U.S. Patent No. 5,915,001.

5. As to claim 1, Ali discloses the invention substantially as claimed, Ali teaches including a method in a browser for providing an audibly controlled user interface for a limited communication device, the steps comprising: receiving speech input information over an interface connection capable of two-way communication with the limited communication device [Fig.1, microphone M over an interface 12, and col.5, lines 10-20]; generating at least one key chunk of information based on the speech input information, and deriving the at least one key chunk of information from the speech input information [col.5, lines 16-18,(speech input from microphone is generated and applied to filter 14, the output of which is applied to the input of analog-to-digital converter (ADC) 16)]; generating an audio output developed based on the at least one key chunk of information; [col.5, lines 18-22 (after generating of an speech input then on the output side, receiving at an input of digital-to analog converter (ADC) 22, the converter analog are then applied to filter 24, for output at speaker S)]; and providing the audio output over the interface connection to the limited communication device in response to generating the audio output [col.5, lines 21-22, and col.6, lines 17-21]. But Ali does not explicitly teach a response document. In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru

discloses a response document [see Uppaluru col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speech recognition in IVR system. Also, Ali does not explicitly disclose an automatic speech recognition module.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses an automatic speech recognition module [see Uppaluru, col.16, line 50 to col.17, line 9].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Uppaluru's teaching of a system and method for providing and using universally accessible voice and speech data files with the teachings of Ali to have an automatic speech recognition for the purpose of prices are cheaper to buy easier to develop, more accurate and can reduce the bandwidth [see Uppaluru, col.16, line 50 to col.17, line4]. And further comprising: sending and receiving web pages to and from an application server according to a hypertext transfer protocol [see Ali, fig.1, interface 12 connection capable]; an XML parser operative to parse XML tags appearing within web pages received by the web browser [see Unger col.3, lines 10-13, and col.5, lines 1-10]; a device interface

operative to perform basic telephony functions including (detecting an on-hook condition and an off-hook condition of a user device, and send and receive audio signals to and from the user device [see Ali, fig.1] ; and a voice resource control configured for selectively implementing hypertext markup language (HTML) [see Ali, input microphone (M)] and XML tags appearing within the [see Unger, col.3, lines 10-14, and col.5, lines 1-10] web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from (a telephone number and an IP address), and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data, whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has an microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals audio data [see Uppaluru col.16, line 50 to col.5].

6. As to claim 2, Ali teaches the invention as claimed, wherein the step of generating the audio output comprises: providing the at least one key chunk of information to a web application; and receiving the web application, an application-defining document accessed in response to the at least one key chunk of information provided to the web application (fig.1 and col.6, lines 10-15). But Ali does not explicitly teach a response document. However, Uppaluru teaches a response document (see col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement the

teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speech recognition in IVR system.

7. As to claim 3, Ali teaches the invention as claimed, wherein the step of receiving the speech input information comprises receiving the speech input information over a telephony connection to the limited communication device; and the step of providing the audio output over the interface connection comprises providing the audio output over the telephony connection (Audio interface handset 10 and speaker S audio output).

8. As to claim 5, Ali teaches the invention as claimed, wherein the step of receiving the speech input information comprises receiving an input indicating an initial access to the limited communication device (Fig.1, Microphone M input speed).

9. As to claim 6, Ali teaches the invention as claimed, wherein the step of receiving the speech input information comprises receiving at least one of a command for storing data, a command for retrieving data, and a command for placing an outbound telephony call (col.15, lines 30-35).

10. As to claim 13, Ali teaches the invention as claimed, including a processor-based system for providing an audibly controlled interface for a limited communication device, the processor-based system comprising: an interface connection capable of two-way communication with the limited communication device [Fig.1, (an Interface 12 connection capable of two-way communication)]; and means for generating an audio output, the generating means in communication with the interface connection,

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wherein the interface connection receives speech input information and provides the speech input information to the generating means, and derives the at least one key chunk of information from the speech input information received over the interface connection [Fig.1 (show speed input and output)]; the generating means generates at least one key chunk of information based on the speech input information, and at least one key chunk of information from the speech input information [col.5, lines 16-18 and Fig.1]; the generating means generates an audio output developed based on the at least one key chunk of information and provides the audio output to the interface connection [col.5, lines 18-22 (on the output side, receiving at an input of digital-to-analog converter (ADC) 22, the converter analog are then applied to filter 24, for output at speaker S)]; and the interface connection provides the audio output to the limited communication device [col.5, lines 21-22, and col.6, lines 17-21]. But Ali does not explicitly teach a response document. As to claim 7, Ali teaches the invention as claimed, including a processor-based system for providing an audibly controlled interface for a limited communication device, the processor-based system comprising: an interface connection capable of two-way communication with the limited communication device [Fig.1, (Interface 12 connection capable of two-way communication)]; and a proxy browser in communication with the interface connection [(proxy browser 20 connect with interface 12)]; wherein the interface connection receives speech input information and provides the speech input information to the proxy browser [Fig.1 speed input Microphone M]; the proxy browser generates at least one key chunk of information based on the speech input information (Fig.1); the proxy browser generates an audio output developed based on



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the at least one key chunk of information and provides the audio output to the interface connection (fig.1); and the interface connection provides the audio output to the limited communication device [col.5, lines 20-22, and col.6, lines 18-21].

Wherein the generating means comprises: means for sending and receiving web pages to and from an application server according to a hypertext transfer protocol [see Ali, fig.1, interface 12 connection capable]; means for parsing XML tags appearing within web pages received by the web browser [see Unger col.3, lines 10-13, and col.5, lines 1-10]; means for performing basic telephony functions including (detecting an on-hook condition and an off-hook condition of a user device, and send and receive audio signals to and from the user device [see Ali, fig.1] ; and means for selectively implementing hypertext markup language (HTML) [see Ali, input microphone (M)] and XML tags appearing within the [see Unger, col.3, lines 10-14, and col.5, lines 1-10] web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from (a telephone number and an IP address), and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data, whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has an microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals audio data [see Uppaluru col.16, line 50 to col.5]. But Ali does not explicitly teach a response document. But Ali does not explicitly teach a response document.

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In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses a response document [see Uppaluru col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speck recognition in IVR system. Also, Ali does not explicitly disclose an automatic speech recognition module.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses an automatic speech recognition module [see Uppaluru, col.16, line 50 to col.17, line 9].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Uppaluru's teaching of a system and method for providing and using universally accessible voice and speech data files with the teachings of Ali to have an automatic speech recognition for the purpose of prices are cheaper to buy easier to develop, more accurate and can reduce the bandwidth [see Uppaluru, col.16, line 50 to col.17, line4].

11. As to claim 14, Ali teaches the invention as claimed, including a computer

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program product that includes a computer readable medium having instructions stored thereon for providing an audibly controlled interface for a limited communication device, such that the instructions, when carried out by a computer, cause the computer to perform the steps of: receiving speech input information over an interface connection capable of two-way communication with the limited communication device [Fig.1, (an Interface 12 connection capable of two-way communication)]; generating at least one key chunk of information based on the speech input information [col.5, lines 16-18 and Fig.1]; generating an audio output developed based on the at least one key chunk of information [col.5, lines 18-22] (on the output side, receiving at an input of digital-to-analog converter (ADC) 22, the converter analog are then applied to filter 24, for output at speaker S); and providing the audio output over the interface connection to the limited communication device in response to generating the audio output [col.5, lines 21-22, and col.6, lines 17-21]. But Ali does not explicitly teach a response document. As to claim 7, Ali teaches the invention as claimed, including a processor-based system for providing an audibly controlled interface for a limited communication device, the processor-based system comprising: an interface connection capable of two-way communication with the limited communication device [Fig.1, Interface 12 connection capable of two-way communication)]; and a proxy browser in communication with the interface connection [proxy browser 20 connect with interface 12]; wherein the interface connection receives speech input information and provides the speech input information to the proxy browser [Fig.1 speed input Microphone M]; the proxy browser generates at least one key chunk of information based on the speech input

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information (Fig,1); the proxy browser generates an audio output developed based on the at least one key chunk of information and provides the audio output to the interface connection (fig.1); and the interface connection provides the audio output to the limited communication device [col.5, lines 20-22, and col.6, lines 18-21]. And further cause the computer to perform the steps of: And further comprising: sending and receiving web pages to and from an application server according to a hypertext transfer protocol [see Ali, fig.1, interface 12 connection capable]; an XML parser operative to parse XML tags appearing within web pages received by the web browser [see Unger col.3, lines 10-13, and col.5, lines 1-10]; a device interface operative to perform basic telephony functions including (detecting an on-hook condition and an off-hook condition of a user device, and send and receive audio signals to and from the user device [see Ali, fig.1] ; and a voice resource control configured for selectively implementing hypertext markup language (HTML) [see Ali, input microphone (M)] and XML tags appearing within the [see Unger, col.3, lines 10-14, and col.5, lines 1-10] web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from (a telephone number and an IP address), and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data, whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has an microphone for generating analog audio

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signals, and whether the user device has an analog to digital converter for converting the analog audio signals audio data [see Uppaluru col.16, line 50 to col.5].

But Ali does not explicitly teach a response document. But Ali does not explicitly teach a response document.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses a response document [see Uppaluru col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speck recognition in IVR system. Also, Ali does not explicitly disclose an automatic speech recognition module.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses an automatic speech recognition module [see Uppaluru, col.16, line 50 to col.17, line 9].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Uppaluru's teaching of a system and method for providing and using universally accessible voice and speech data files with the teachings of Ali to have an automatic speech recognition for the purpose of

prices are cheaper to buy easier to develop, more accurate and can reduce the bandwidth [see Uppaluru, col.16, line 50 to col.17, line4].

12. As to claim 15, Ali teaches the invention as claimed, wherein the step of generating the audio output comprises: providing the at least one key chunk of information to a web application, and receiving an application-defining document accessed in response to the at least one key chunk of information provided to the web application (col.5, lines 18-22 on the output side, receiving at an input of digital-to-analog converter (ADC) 22, the converter analog are then applied to filter 24, for output at speaker S). But Ali does not explicitly teach a response document.

However, Uppaluru teaches a response document (see col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speech recognition in IVR system.

13. As to claim 16, Ali teaches the invention as claimed, including a computer program propagated signal product embodied in a propagated medium, having instructions for providing an audibly controlled interface for a limited communication, such that the instructions, when carried out by a computer, cause the computer to perform the steps of: receiving speech input information over an interface connection capable of two-way communication with the limited communication device (Fig.1, an Interface 12 connection capable of two-way

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communication); generating at least one key chunk of information based on the speech input information (col.5, lines 16-18 and Fig.1); generating an audio output developed based on the at least one key chunk of information (col.5, lines 18-22 on the output side, receiving at an input of digital-to-analog converter (ADC) 22, the converter analog are then applied to filter 24, for output at speaker S); and providing the audio output over the interface connection to the limited communication device in response to generating the audio output (col.5, lines 21-22, and col.6, lines 17-21).

But Ali does not explicitly teach a response document. And further cause the computer to perform the steps of: And further comprising: sending and receiving web pages to and from an application server according to a hypertext transfer protocol [see Ali, fig.1, interface 12 connection capable]; an XML parser operative to parse XML tags appearing within web pages received by the web browser [see Unger col.3, lines 10-13, and col.5, lines 1-10]; a device interface operative to perform basic telephony functions including (detecting an on-hook condition and an off-hook condition of a user device, and send and receive audio signals to and from the user device [see Ali, fig.1] ; and a voice resource control configured for selectively implementing hypertext markup language (HTML) [see Ali, input microphone (M)] and XML tags appearing within the [see Unger, col.3, lines 10-14, and col.5, lines 1-10] web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from (a telephone number and an IP address), and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data, whether the user device is

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able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has an microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals audio data [see Uppaluru col.16, line 50 to col.5].

But Ali does not explicitly teach a response document.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses a response document [see Uppaluru col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speck recognition in IVR system. Also, Ali does not explicitly disclose an automatic speech recognition module.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses an automatic speech recognition module [see Uppaluru, col.16, line 50 to col.17, line 9].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Uppaluru's teaching of a system and



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method for providing and using universally accessible voice and speech data files with the teachings of Ali to have an automatic speech recognition for the purpose of prices are cheaper to buy easier to develop, more accurate and can reduce the bandwidth [see Uppaluru, col.16, line 50 to col.17, line4].

14. As to claim 17, Ali teaches the invention as claimed, wherein the step of generating the audio output comprises: providing the at least one key chunk of information to a web application, and receiving an application-defining document accessed in response to the at least one key chunk of information provided to the web application (col.5, lines 18-22 on the output side, receiving at an input of digital-to-analog converter (ADC) 22, the converter analog are then applied to filter 24, for output at speaker S). But Ali does not explicitly teach a response document.

However, Uppaluru teaches a response document (see col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speech recognition in IVR system.

15. As to claim 41, Ali teaches the invention as claimed, including a method in a browser for providing an audibly controlled user interface for a limited communication device, the steps comprising: receiving speech input information including at least one of an input indicating an initial access to the limited communication device over a telephony connection, a command for storing data, a

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command for retrieving data, and a command for placing an outbound telephony call (Fig.1, microphone M over an interface 12, and col.5, lines 10-20); generating the at least one key chunk of information by an automatic speech recognition module deriving the at least one key chunk of information from the speech input information (col.5, lines 16-18, speed input from microphone is generated and applied to filter 14, the output of which is applied to the input of analog-to-digital converter (ADC) 16); generating an audio output developed based on the at least one key chunk of information, providing the at least one key chunk of information to a web application to the at least one key chunk of information provided to the web application (col.5, lines 18-22 after generating of an speed input then on the output side, receiving at an input of digital-to analog converter (ADC) 22, the converter analog are then applied to filter 24, for output at speaker S); and providing the audio output over the telephony connection to the limited communication device in response to generating the audio output (col.5, lines 21-22, and col.6, lines 17-21). And further comprising: sending and receiving web pages to and from an application server according to a hypertext transfer protocol [see Ali, fig.1, interface 12 connection capable]; an XML parser operative to parse XML tags appearing within web pages received by the web browser [see Unger col.3, lines 10-13, and col.5, lines 1-10]; a device interface operative to perform basic telephony functions including (detecting an on-hook condition and an off-hook condition of a user device, and send and receive audio signals to and from the user device [see Ali, fig.1] ; and a voice resource control configured for selectively implementing hypertext markup language (HTML) [see Ali, input microphone (M)] and XML tags appearing within the [see Unger, col.3,

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lines 10-14, and col.5, lines 1-10] web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from (a telephone number and an IP address), and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data, whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has an microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals audio data [see Uppaluru col.16, line 50 to col.5].

But Ali does not explicitly teach a response document. However, Uppaluru teaches a response document.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses a response document [see Uppaluru col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speck recognition in IVR system.

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16. Claims 37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murtaza Ali., (hereinafter Ali) U.S. Patent No. 6,144,937, Premkumar V.Uppaluru., (hereinafter Uppaluru) U.S. Patent No. 5,915,001 in view of Ahmet Alpdemir (hereinafter Alpdemir) U.S. Patent No. 6,658,389.

17. As to claim 37, Ali teaches the invention as claimed, wherein the browser is configured to retrieve web-based documentation containing markup language on behalf of multiple user devices; wherein the response document is a web page containing a markup language reference to a sound file (see col.5, lines 10-22); and wherein the step of generating the audio output includes the step of: Ali and Uppaluru do not explicitly teach playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output.

In the same field endeavor, Alpdemir discloses (e.g., a system, method, and business model for speech-interactive... rating feature). Alpdemir discloses playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output [see Alpdemir, col.1, lines 55-60, and col.3, line 60 to col.4, line 15].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Alpdemir's teaching of a system, method, and business model for speech-interactive information system having business self-promotion, audio coupon and rating feature with the teaching of Ali to have markup language reference contained in the web page in order to generate the audio output because it would have an efficient system that can provide specific functions for

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submitting and retrieving ratings for goods and services which can be used by both businesses and consumers [see Alpdemir, col.1, lines 55-59].

18. As to claim 38, Ali teaches the invention as claimed, wherein the step of receiving the speech input includes the step of obtaining an incoming wireless signal from a wireless user device, the wireless signal carrying the speech input (see col.1, lines 23-67); wherein the step of generating the at least one key chunk of information includes the step of parsing the web page to identify the markup language reference to the sound file; Ali and Uppaluru do not explicitly teach playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output.

In the same field endeavor, Alpdemir discloses (e.g., a system, method, and business model for speech-interactive... rating feature). Alpdemir discloses playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output [see Alpdemir, col.1, lines 55-60, and col.3, line 60 to col.4, line 15].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Alpdemir's teaching of a system, method, and business model for speech-interactive information system having business self-promotion, audio coupon and rating feature with the teaching of Ali to have markup language reference contained in the web page in order to generate the audio output because it would have an efficient system that can provide specific functions for

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submitting and retrieving ratings for goods and services which can be used by both businesses and consumers [see Alpdemir, col.1, lines 55-59].

19. As to claim 39, Ali teaches the invention as claimed, wherein the browser is configured to retrieve web-based documentation containing markup language on behalf of multiple user devices; wherein the response document is a web page containing a markup language reference to a sound file [see col.5, lines 10-22]; and wherein the step of generating the audio output includes the step of; Ali and Uppaluru do not explicitly teach playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output.

In the same field endeavor, Alpdemir discloses (e.g., a system, method, and business model for speech-interactive... rating feature). Alpdemir discloses playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output [see Alpdemir, col.1, lines 55-60, and col.3, line 60 to col.4, line 15].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Alpdemir's teaching of a system, method, and business model for speech-interactive information system having business self-promotion, audio coupon and rating feature with the teaching of Ali to have markup language reference contained in the web page in order to generate the audio output because it would have an efficient system that can provide specific functions for submitting and retrieving ratings for goods and services which can be used by both businesses and consumers [see Alpdemir, col.1, lines 55-59].

20. As to claim 40, Ali teaches the invention as claimed, wherein the speech input includes an incoming wireless signal from a wireless user device, the wireless signal carrying the speech input (see col.1, lines 23-67); wherein the step of generating the at least one key chunk of information includes the step of parsing the web page to identify the markup language reference to the sound file; Ali and Uppaluru do not explicitly teach playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output.

In the same field endeavor, Alpdemir discloses (e.g., a system, method, and business model for speech-interactive... rating feature). Alpdemir discloses playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output [see Alpdemir, col.1, lines 55-60, and col.3, line 60 to col.4, line 15].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Alpdemir's teaching of a system, method, and business model for speech-interactive information system having business self-promotion, audio coupon and rating feature with the teaching of Ali to have markup language reference contained in the web page in order to generate the audio output because it would have an efficient system that can provide specific functions for submitting and retrieving ratings for goods and services which can be used by both businesses and consumers [see Alpdemir, col.1, lines 55-59].

21. Claims 7–12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murtaza Ali., (hereinafter Ali) U.S. Patent No. 6,144,937, Premkumar V.Uppaluru., (hereinafter Uppaluru) U.S. Patent No. 5,915,001 in view of Unger et al., (hereinafter Unger) U.S. Patent No. 6,886,130.
22. As to claim 7, Ali teaches the invention as claimed, including a processor-based system for providing an audibly controlled interface for a limited communication device, the processor-based system comprising: an interface connection capable of two-way communication with the limited communication device [Fig.1, (Interface 12 connection capable of two-way communication)]; and a proxy browser in communication with the interface connection [proxy browser 20 connect with interface 12]; wherein the interface connection receives speech input information and provides the speech input information, and derives the at least one key chunk of information form the speech input information receive over the interface connection [Fig.1 (speech input Microphone M)]; the proxy browser generates at least one key chunk of information based on the speech input information (Fig.1); the proxy browser generates an audio output developed based on the at least one key chunk of information and provides the audio output to the interface connection (fig.1); and the interface connection provides the audio output to the limited communication device [col.5, lines 20-22, and col.6, lines 18-21]. Wherein the proxy browser comprises: a web browser configured for sending and receiving web pages to and from an application server according to a



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hypertext transfer protocol [see Ali, fig.1, interface 12 connection capable]; an XML parser operative to parse XML tags appearing within web pages received by the web browser [see Unger col.3, lines 10-13, and col.5, lines 1-10]; a device interface operative to perform basic telephony functions including (detecting an on-hook condition and an off-hook condition of a user device, and send and receive audio signals to and from the user device [see Ali, fig.1] ; and a voice resource control configured for selectively implementing hypertext markup language (HTML) [see Ali, input microphone (M)] and XML tags appearing within the [see Unger, col.3, lines 10-14, and col.5, lines 1-10] web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from (a telephone number and an IP address), and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data, whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has an microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals audio data [see Uppaluru col.16, line 50 to col.5].

23. But Ali does not explicitly teach a response document. But Ali does not explicitly teach a response document.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files).

Uppaluru discloses a response document [see Uppaluru col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files for caller authentication and for performing speaker dependent speck recognition in IVR system. Also, Ali does not explicitly disclose an automatic speech recognition module. However, Uppaluru teaches an automatic speech recognition module.

In the same field of endeavor, Uppaluru discloses (e.g., a system and method for providing and using universally accessible voice and speech data files). Uppaluru discloses an automatic speech recognition module [see Uppaluru, col.16, line 50 to col.17, line 9].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporated Uppaluru's teaching of a system and method for providing and using universally accessible voice and speech data files with the teachings of Ali to have an automatic speech recognition for the purpose of prices are cheaper to buy easier to develop, more accurate and can reduce the bandwidth [see Uppaluru, col.16, line 50 to col.17,

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line 4]. Also, Ali does not explicitly teach proxy browser. However, Unger teaches proxy browser.

In the same field of endeavor, Unger discloses (e.g., compiled structured for efficient operation of distributed hypertext). Unger discloses Proxy browser [see Unger col.15, lines 1-5, and col.13, lines 1-10].

Accordingly, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate Unger's teachings of compiled structured for efficient operation of distributed hypertext with the teachings of Ali to have a proxy browser for the purpose of more quickly transmitted and rendered by the user browser [see Unger col.2, lines 58-6].

24. As to claim 8, Ali teaches the invention as claimed, wherein the proxy browser provides the at least one key chunk of information to a web application over a network (Fig.1 Proxy browser 20); and receives an application-defining document accessed in response to the at least one key chunk of information provided to the web application (receiving at an input of digital-to analog converter (ADC) 22, the converter analog are then applied to filter 24, for output at speaker S). But Ali does not explicitly teach a response document. However, Uppaluru teaches a response document (see col.6, lines 30-63, col.9, lines 5-16, and col.10, lines 28-49). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement the teachings of Uppaluru into the computer system of Ali to have a response document because it would have an efficient system that can provide specific functions to allow widespread use of such files

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for caller authentication and for performing speaker dependent speech recognition in IVR system.

25. As to claim 9, Ali teaches the invention as claimed, wherein the interface connection is a telephony connection (col.5, lines 6-11, handset 10).
26. As to claim 11, Ali teaches the invention as claimed, wherein the speech input information comprises an input indicating an initial access to the limited communication device (Fig.1, Microphone M input speed).
27. As to claim 12, Ali teaches the invention as claimed, wherein the speech input information comprises at least one of a command for storing data, a command for retrieving data, and a command for placing an outbound telephony call (col.15, lines 30-35).

### ***Response to Arguments***

28. Applicant's arguments filed January 10, 2007 have been fully considered but they are not persuasive.
29. Applicants argue that the rejection is improper. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

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30. Accordingly, claims 1-9, 11-17, and 36-41 are respectfully rejected.

### ***Conclusion***

31. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

32. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammy T. Nguyen whose telephone number is 571-272-3929. The examiner can normally be reached on Monday - Friday 8:30 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ***William Vaughn*** can be reached on 571-272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

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information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WV

March 30, 2007

A handwritten signature in black ink, appearing to read 'W. Vaughn', with a large, stylized flourish extending from the end.

WILLIAM VAUGHN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100